

General Biology Chapter 5 Study Guide

1. What are the differences between starch, glycogen, and cellulose?

Starch is a storage polysaccharide of plants consisting of glucose monomers. Plants store a surplus of starch as granules within chloroplasts and other plastids. Glycogen is a storage polysaccharide in animals and is mainly liver and muscle cells. Cellulose is a major component of the rigid wall of plant cells. Like starch, cellulose is a glucose polymer, but the glycosidic linkages differ. The difference is based on two ring forms for glucose: alpha (α) and beta (β).

2. What is the difference between saturated vs unsaturated fatty acids?

Saturated fatty acids have the maximum number of hydrogen atoms possible and no double bond, whereas unsaturated fatty acids have one or more double bonds.

3. What are the functions of proteins in living systems?

Functions of proteins in living systems include acting as enzymes and hormones, maintaining proper fluid and acid-base balance, providing nutrient transport, making antibodies, enabling wound healing and tissue regeneration, and providing energy when carbohydrate and fat intake is inadequate. Other

Guide General Biology Answers

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